



Science 14 Course Outline

Goals

The goals of the Science 14-24 program are:

- encourage students at all grade levels to develop a critical sense of wonder and curiosity about scientific and technological endeavors
- enable students to use science and technology to acquire new knowledge and solve problems, so that they may improve the quality of their own lives and the lives of others
- prepare students to critically address science-related societal, economic, ethical and environmental issues
- provide students with a foundation in science that creates opportunities for them to pursue progressively higher levels of study, prepares them for science-related occupations, and engages them in science-related hobbies appropriate to their interests and abilities
- enable students, of varying aptitudes and interests, to develop a knowledge of the wide spectrum of careers related to science, technology and the environment.

Course Evaluation

Science 14

Unit	Topics	Evaluation
Chemistry	Investigating Properties of Matter	25 %
Energy	Understanding Energy Transfer Technologies	25 %
Biological Systems	Investigating Matter and Energy in Living Systems	25 %
Biological Systems	Investigating Matter and Energy in the Environment	25%

Students will be assessed by outcomes. The scale for each outcome will be assessed using a 6 point scale.

Student-Friendly Language (1-6 Scale)

Expert	6	Near perfect demonstration of understanding/skill; high confidence; mastery of learning standard.	"You could teach this!"
	5	Strong demonstration of understanding/skill; high confidence; slight error involved.	"Almost perfect, just one little error!"
Apprentice	4	Good demonstration of understanding/skill; confidence evident; a few errors	"Good understanding, with just a few errors."
	3	Satisfactory demonstration of understanding/basic skills; key concepts are lacking; errors common	"You are on the right track, but a key concept is lacking."
Novice	2	Minimal understanding of key concepts and rudimentary demonstration of basic skills; many errors	"You have achieved the bare minimum to pass learning outcome."
	1	Inadequate understanding key concepts and little to no demonstration of basic skills; errors throughout	"Has not met minimal proficiency on learning outcome or skill"

Materials

3 ring binder, loose-leaf paper, pen, pencil, eraser, scientific calculator

Personally owned device

Extra Help

Extra help is available from the course instructor in focus and after school. It is the responsibility of the student to recognize when extra help is needed and then contact the course instructor.

Rewrite Policy

If a student wishes to be reassessed on a "Concept Check", they may complete a re-write application on the "One Note." The student will have to ensure they have completed the necessary work to qualify for the rewrite and will need to attend the next TLB in order to complete the rewrite. Students are more likely to be granted a rewrite by attending FOCUS blocks and ensuring classwork is complete. The rewrite mark will be the final mark taken, whether it is higher or not. The teacher will decide the maximum number of rewrites given.